

Strategic Water Resource Development Plan

Summary of Wastewater Treatment Systems

Buffalo Trace Area Development District

Water Resource Development Commission

March 2000

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BUFFALO TRACE AREA DEVELOPMENT DISTRICT

327 West Second Street
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ADD Sewer Service (map)

- Estimated 1999 population of 54,100--34% on public sewer
- Estimated 2020 population of 55,700--38% on public sewer
- Proposed projects would connect about 820 new households to public sewer during 2000-2020
- Estimated funding needs for public sewer 2000-2005--\$5,330,000
- Estimated funding needs for public sewer 2006-2020--\$8,180,000

The region had an estimated population of 54,061 (22,054 households) in 1999 with a projected population of 55,700 (24,300 households) in 2020. Public sewer systems serve 18,500 area residents, or 34 percent of the population. Proposed sewer line extensions for the period 2000-2020 would provide service to an additional 820 households. About 35,600 people in the region currently rely on onsite treatment systems.

Estimated populations and public water service for the five counties in the region are given below: (7 public sewer systems serve the region)

County	1997 Pop	On Public	2020 Pop	On Public
Bracken	8,300	2,500 (30%)	8,550	2,600 (30%)
Fleming	13,300	4,000 (30%)	14,400	4,600 (32%)
Lewis	13,700	2,700 (20%)	15,100	3,800 (25%)
Mason	16,700	9,200 (55%)	15,600	9,700 (62%)
Robertson	2,160	130 (6%)	2,030	500 (25%)
Region	54,100	18,500 (34%)	55,700	21,200 (38%)



EXISTING & PROPOSED SEWER SERVICE BTADD Kentucky

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- 201k Facility Planning Area
- Incorporated City Boundary
- Sewage Treatment Plant

Bob Arnold, Chairman
Lawrence Wetherby, Executive Director

Final GIS & Cartographic Operations By:
Kent Anness & Kim Anness

Data Collection & GIS Input By:
Kentucky Area Development Districts



SEWER SERVICE

- Existing Sewer Service
- Proposed Sewer Service

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Estimated costs for public sewer expansions and associated system upgrades are:

Proposed Projects 2000-2005

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
BRACKEN							none
FLEMING							none
LEWIS							none
MASON							-
Western Mason Sanitation District	227	2,718					2,718
ROBERTSON							
City of Mt. Olivet	163	1,713			900		2,613
Buffalo Trace ADD Total	227	4,431			900		5,331

Proposed Projects 2006-2020

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
BRACKEN							none
FLEMING							-
City of Ewing	105	1,200			532		1,732
LEWIS							-
Sanitation District #1	70	700					700
Sanitation District #2	165	1,722			1,000		2,722
County Total	235	2,422			1,000		3,422
MASON							-
Western Mason County Water District	170	1,710					1,710
Mayslick	80	1,320					1,320
County Total	250	3,030			-		3,030
ROBERTSON							none
Buffalo Trace ADD Total	590	6,652			1,532		8,184

BRACKEN COUNTY

Bracken County Sewer Service (map)

- Estimated 1999 population of 8,300--30% on public sewer
- Estimated 2020 population of 8,550--30% on public sewer
- Estimated funding needs for public sewer 2000-2005--\$0
- Estimated funding needs for public sewer 2006-2020--\$0

Bracken County had an estimated population of 8,280 (3,392 households) in 1999 with a projected population of 8,547 (3,728 households) in 2020. Public sewer is provided to about 30 percent of the county's residents. About 2,400 households in the county use on-site wastewater treatment.

BRACKEN COUNTY SEWER PLAN

Proposed Projects 2000-2005

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
BRACKEN							none

Proposed Projects 2006-2020

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
BRACKEN							none

SEWER SERVICE AREAS

BRACKEN COUNTY

Kentucky

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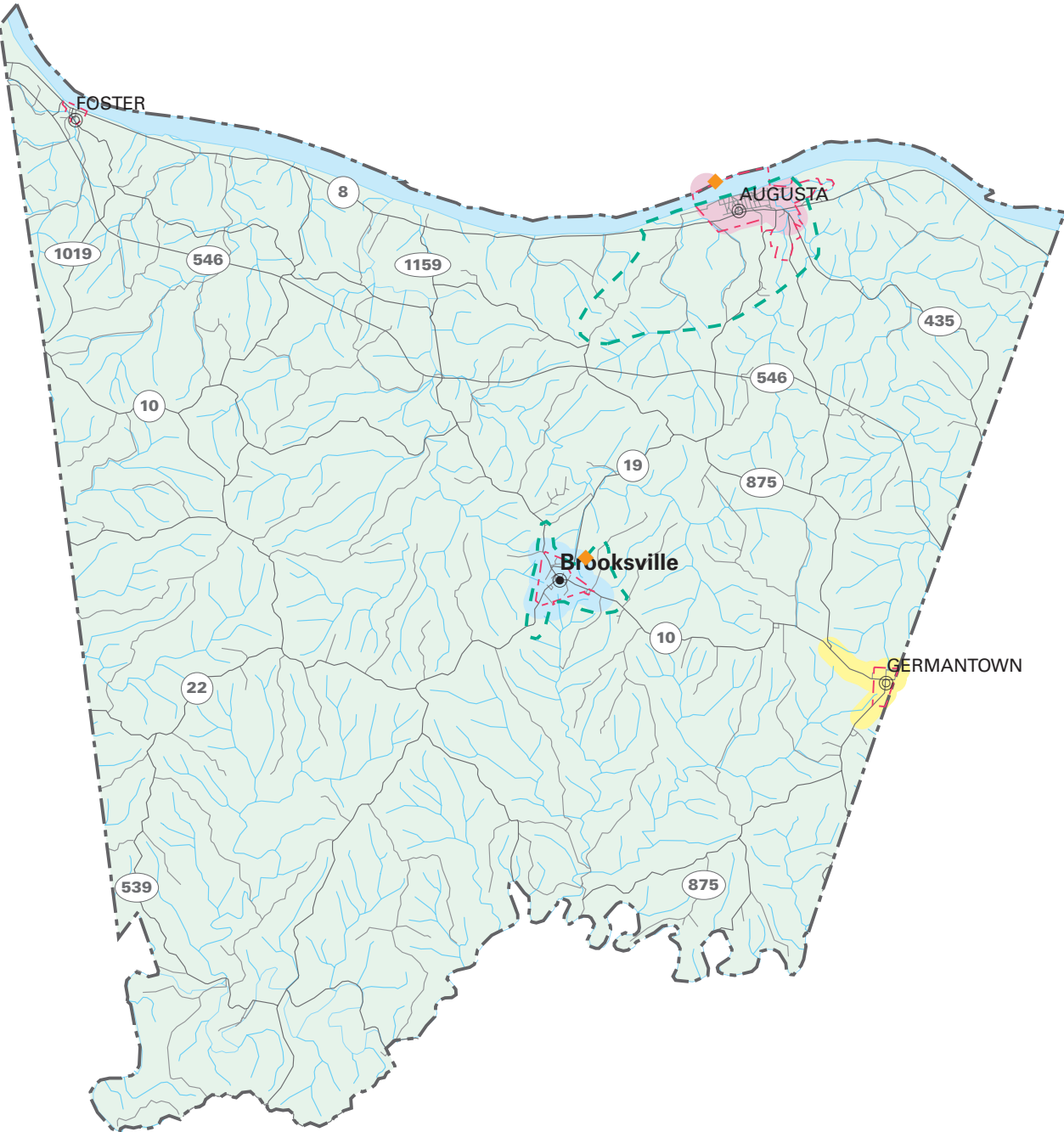
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- 201k Facility Planning Area
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- Sewage Treatment Plant



SEWER SERVICE STATUS BY OWNER		
EXISTING SERVICE AREA	PROPOSED SERVICE AREA	
		WESTERN MASON SANITATION DISTRICT
		CITY OF BROOKSVILLE
		AUGUSTA WASTEWATER TREATMENT PLANT



FLEMING COUNTY

Fleming County Sewer Service (map)

- Estimated 1999 population of 13,300--30% on public sewer
- Estimated 2020 population of 14,400--32% on public sewer
- Proposed projects would connect about 105 new households to public sewer during 2000-2020
- Estimated funding needs for public sewer 2000-2005--\$0
- Estimated funding needs for public sewer 2006-2020--\$1,730,000

Fleming County had an estimated population of 13,289 (5,475 households) in 1999 with a projected population of 14,411 (6,404 households) in 2020. Public sewer is provided to about 30 percent of the county's residents. About 3,800 households in the county use on-site wastewater treatment. About 105 customers could be added to public sewer service through new line extensions in 2000-2020.

FLEMING COUNTY SEWER PLAN

Proposed Projects 2000-2005

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
FLEMING							none

Proposed Projects 2006-2020

FLEMING							
City of Ewing WI21069007	105	1,200			532		1,732

SEWER SERVICE AREAS

FLEMING COUNTY

Kentucky

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SEWER SERVICE STATUS BY OWNER

EXISTING SERVICE AREA	PROPOSED SERVICE AREA	
		CITY OF FLEMINGSBURG
		CITY OF EWING

LEWIS COUNTY

Lewis County Sewer Service (map)

- Estimated 1999 population of 13,700--20% on public sewer
- Estimated 2020 population of 15,100--25% on public sewer
- Proposed projects would connect about 235 new households to public sewer during 2000-2020
- Estimated funding needs for public sewer 2000-2005--\$0
- Estimated funding needs for public sewer 2006-2020--\$3,420,000

Lewis County had an estimated population of 13,668 (5,398 households) in 1999 with a projected population of 15,073 (6,326 households) in 2020. Public sewer is provided to about 20 percent of the households. About 4,300 households use on-site systems. About 235 customers could be added to public sewer service through new line extensions in 2000-2020.

LEWIS COUNTY SEWER PLAN

Proposed Projects 2000-2005

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
LEWIS							none

Proposed Projects 2006-2020

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
LEWIS							-
Sanitation District #1 WI21135001	70	700					700
Sanitation District #2 WI21135002	165	1,722			1,000		2,722
County Total	235	2,422			1,000		3,422

SEWER SERVICE AREAS

LEWIS COUNTY

Kentucky

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SEWER SERVICE STATUS BY OWNER

EXISTING SERVICE AREA	PROPOSED SERVICE AREA	OWNER
		VANCEBURG UTILITIES
		LEWIS COUNTY SANITATION DISTRICT #2

MASON COUNTY

Mason County Sewer Service (map)

- Estimated 1999 population of 16,700--55% on public sewer
- Estimated 2020 population of 15,600--62% on public sewer
- Proposed projects would connect about 480 new households to public sewer during 2000-2020
- Estimated funding needs for public sewer 2000-2005--\$2,720,000
- Estimated funding needs for public sewer 2006-2020--\$3,630,000

Mason County had an estimated population of 16,661 (6,854 households) in 1999 with a projected population of 15,606 (6,896 households) in 2020. Public sewer is provided to about 55 percent of the county's residents. About 3,100 households in the county use on-site treatment systems. About 480 customers could be added to public sewer service through new line extensions in 2000-2020.

MASON COUNTY SEWER PLAN

Proposed Projects 2000-2005

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
MASON							-
Western Mason Sanitation District							-
WI21161005	227	2,718					2,718

Proposed Projects 2006-2020

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
MASON							-
Western Mason County Water District							-
W1211611004	170	1,710			600		2,310
Mayslick WI21161006	80	1,320					1,320
County Total	250	3,030			600		3,630

SEWER SERVICE AREAS

MASON COUNTY

Kentucky

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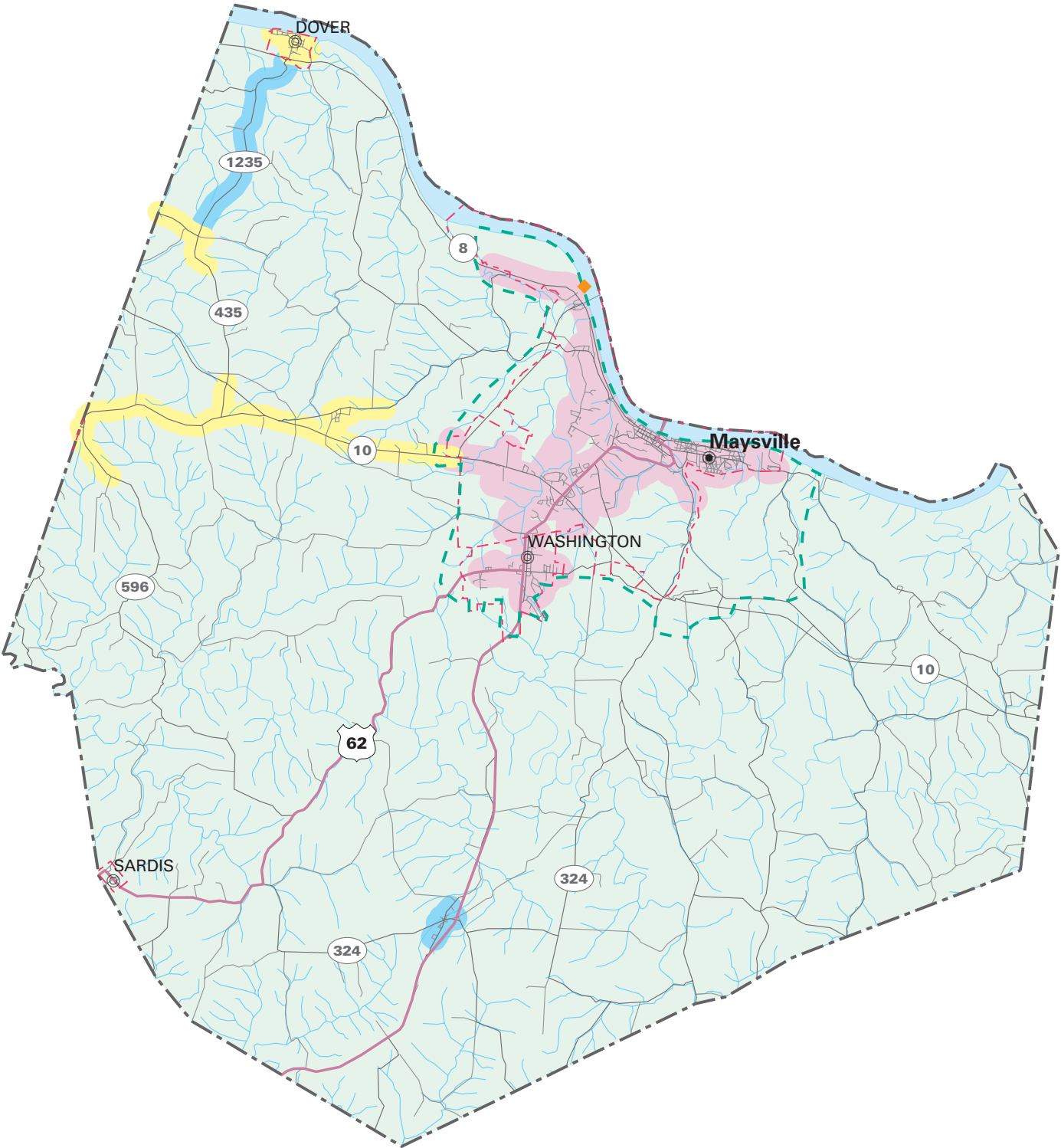
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SEWER SERVICE STATUS BY OWNER

EXISTING SERVICE AREA	PROPOSED SERVICE AREA	
		WESTERN MASON SANITATION DISTRICT
		SOUTHERN MASON SANITATION DISTRICT
		MAYSVILLE UTILITIES

ROBERTSON COUNTY

Robertson County Sewer Service (map)

- Estimated 1999 population of 2,160--6% on public sewer
- Estimated 2020 population of 2,030--25% on public sewer
- Proposed projects would connect about 165 new households to public sewer during 2000-2020
- Estimated funding needs for public sewer 2000-2005--\$2,610,000
- Estimated funding needs for public sewer 2006-2020--\$0

Robertson County had an estimated population of 2,162 (935 households) in 1999 with a projected population of 2,027 (931 households) in 2020. Public sewer is provided to about 6 percent of the county's residents. About 880 households treat wastewater on site. About 165 customers could be added to public sewer service through new line extensions in 2000-2020.

ROBERTSON COUNTY SEWER PLAN

Proposed Projects 2000-2005

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
ROBERTSON							-
City of Mt. Olivet	163	1,713			900		2,613

Proposed Projects 2006-2020

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
ROBERTSON							none

SEWER SERVICE AREAS

ROBERTSON COUNTY

Kentucky

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SEWER SERVICE STATUS BY OWNER

EXISTING SERVICE AREA	PROPOSED SERVICE AREA	
		CITY OF MOUNT OLIVET